

IN THE CLAIMS

1-13. (CANCELED)

14. (NEW) An aircraft roller comprising:

- a) a cylindrical body, said body having a length and a diameter; and
- b) an aperture extending longitudinally along and through the center of said body, wherein said body consists essentially of a polymer.

15. (NEW) The aircraft roller of claim 14, wherein the roller is a single piece component.

16. (NEW) The aircraft roller of claim 14, wherein the polymer is selected from the group consisting of polysulfone, nylon, polycarbonate, polyetherimide, polyetherketone, polyphenylene sulfide and polyvinylidene fluoride and acetyl copolymer.

17. (NEW) The aircraft roller of claim 14, wherein the polymer is acetyl copolymer.

18. (NEW) The aircraft roller of claim 14 further having ends, wherein said ends are shaped to provide a shoulder.

19. (NEW) The aircraft roller of claim 14 further having an impact strength of at least 0.5 ft. lbs./in.

20. (NEW) The aircraft roller of claim 14 further having a flexural strength of at least 20 psi.

21. (NEW) The aircraft roller of claim 14 further having a compressibility strength of at least 20 psi.

22. (NEW) The aircraft roller of claim 14 further having a compressibility strength of at least 200 psi.

23. (NEW) The aircraft roller of claim 14, wherein the diameter of the body of the roller is between  $\frac{1}{4}$  of an inch to 12 inches.

24. (NEW) The aircraft roller of claim 14, wherein the length of the body of the roller is between  $\frac{1}{2}$  of an inch to 25 feet.

25. (NEW) The aircraft roller of claim 14, wherein the diameter of the body of the roller is between  $\frac{1}{2}$  of an inch to 6 inches.

26. (NEW) The aircraft roller of claim 14, wherein the length of the body of the roller is between 3 inches to 4 inches.

27. (NEW) An aircraft conveyor system comprising at least one aircraft roller of claim 14.
28. (NEW) A method of installing the aircraft roller of claim 14 to an aircraft conveyor system comprising:
- a) removing an existing roller from a shaft of the aircraft conveyor; and
  - b) inserting the aircraft roller of claim 14 onto the shaft.
29. (NEW) The method of claim 28 further comprising the step of securing the roller to the aircraft conveyor with a retaining pin.
30. (NEW) The aircraft roller of claim 14 manufactured by a method comprising the steps of:
- a) obtaining a round stock of polymer;
  - b) boring an aperture longitudinally through the round stock of polymer; and
  - c) cutting the round stock to length.
31. (NEW) The aircraft roller of claim 30 further comprising the step of detailing ends of the cut round stock.
32. (NEW) The aircraft roller of claim 30, wherein the polymer is selected from the group consisting of polysulfone, nylon, polycarbonate, polyetherimide, polyetherketone, polyphenylene sulfide and polyvinylidene fluoride and acetyl copolymer.
33. (NEW) The aircraft roller of claim 30, wherein the polymer is acetyl copolymer.